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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/558,934	12/02/2005	Tadahiro Ohmi	5016-0102PUS1	6405
	7590 05/14/200 ART KOLASCH & BI	EXAMINER		
PO BOX 747	OH WA 22040 0747	MERLIN, JESSICA M		
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
			2871	
			NOTIFICATION DATE	DELIVERY MODE
			05/14/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

	Application No.	Applicant(s)				
	10/558,934	OHMI ET AL.				
Office Action Summary	Examiner	Art Unit				
•	JESSICA M. MERLIN	2871				
The MAILING DATE of this communication app						
Period for Reply	VIC CET TO EVOIDE AMONT	THE OD THERTY (20) DAVE				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION ACAGE: In no event, however, may a reply be will apply and will expire SIX (6) MONTHS for a cause the application to become ABANDO	ON. e timely filed rom the mailing date of this communication. DNED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 09 Fe	<u>ebruary 2009</u> .					
2a) This action is FINAL . 2b) ☐ This	This action is FINAL . 2b)⊠ This action is non-final.					
•	- ' '					
closed in accordance with the practice under E	:x parte Quayle, 1935 C.D. 11,	453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-21</u> is/are pending in the application.						
4a) Of the above claim(s) <u>13-21</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) 1-12 is/are rejected.						
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	r election requirement					
o) are subject to restriction and on	Clouder requirement.					
Application Papers						
9) The specification is objected to by the Examine						
10)⊠ The drawing(s) filed on <u>02 <i>December</i> 2005</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •				
,—	Ammon Note the attached on	00 / 101011 01 101111 1 1 0 1 1021				
Priority under 35 U.S.C. § 119						
,	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:						
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau						
* See the attached detailed Office action for a list	of the certified copies not recei	ived.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summa					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 	Paper No(s)/Mail 5) Notice of Informa	Date al Patent Application				
Paper No(s)/Mail Date	6) Other:					

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DETAILED ACTION

Response to Amendment

1. Receipt is acknowledged of applicant's amendment filed February 9, 2009. Claims 1-21 are pending and an action on the merits is as follows.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-5 and 7-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Mino (JP 10-209463, provided by applicant in IDS), of which an English translation is attached.

In regard to claim 1, Mino discloses a substrate, comprising (see e.g. Figure 1): a transparent base 1,

a transparent film 3 in which a groove (volume occupied by 2a+2b) is formed to reach a main surface of said transparent base 1, and

a wiring portion 2a+2b formed in said groove,

wherein said groove has a maximum width and a minimum width, and

said wiring portion 2a+2b in said groove has a width and a thickness determined by correlation with the maximum width and the minimum width of said groove.

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In regard to claim 2, Mino discloses said transparent film is made of a transparent resin (see e.g. paragraph [0027]).

In regard to claim 3, Mino discloses said transparent film is made of a photosensitive transparent resin (see e.g. paragraph [0027]).

In regard to claim 4, Mino discloses said wiring portion is transparent or opaque (see e.g. paragraph [0025]).

In regard to claim 5, Mino discloses said transparent film contains inorganic matter (see e.g. paragraph [0027]).

In regard to claim 7, Mino discloses a surface of said transparent film and a surface of said wiring portion are substantially flush with each other (see e.g. Figure 1).

In regard to claim 8, Mino discloses when the maximum width and the minimum width of said groove in transverse section are represented as Wl and W2, respectively, a maximum wiring width Wi of said wiring portion in said groove has a relationship of W2≤Wi≤W1 (see e.g. Figure 1 and note that the width of the wiring falls between the maximum and minimum widths of the grooves since it is filling the groove).

In regard to claim 9, Mino discloses a thickness of said wiring portion in said groove at the maximum wiring width Wi is represented as ti, a thickness of said transparent film is represented as tl, and a thickness of said transparent film at a position of an average width ((W1+W2)/2) of said groove is represented as t2, the thickness ti at a position of said maximum wiring width falls within the range of t2 \le ti \le t1 (see e.g. Figure 1 and note that the wiring is flush to the substrate and the top of the transparent film).

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In regard to claim 10, Mino discloses said transparent base is made of a glass or a plastic material (see e.g. paragraph [0025]).

In regard to claim 11, Mino discloses a display device manufactured using said substrate according to claim 1 (see e.g. paragraph [0024]).

In regard to claim 12, Mino discloses said display device is a liquid crystal display device or an EL display device (see e.g. paragraph [0024]).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mino (JP 10-209463) in view of Odemura (JP 2001-188343 A).

In regard to claim 6, Mino discloses the above limitations and said transparent film contains a radiation-sensitive component (see e.g. paragraph [0027]), but fails to disclose said transparent film is formed using a resin composition comprising an alkali-soluble alicyclic olefin resin.

However, Odemura discloses said transparent film is formed using a resin composition comprising an alkali-soluble alicyclic olefin resin (see e.g. abstract).

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6. Given the teachings of Odemura, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the display device of Mino with said transparent film is formed using a resin composition comprising an alkali-soluble alicyclic olefin resin.

Doing so would provide a photosensitive resin composition that is easily micro-patterned and has excellent thin film properties such as flatness, heat resistance, transparency and chemical resistance (see e.g. abstract).

Response to Arguments

7. Applicant's arguments with respect to claims 1-12 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JESSICA M. MERLIN whose telephone number is (571)270-3207. The examiner can normally be reached on Monday-Friday 6:30AM-4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. M. M./ Examiner, Art Unit 2871 Jessica M. Merlin May 7, 2009

/David Nelms/ Supervisory Patent Examiner, Art Unit 2871